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PATENT APPLICATION: US/10/067,076

DATE: 01/16/2003

TIME: 13:37:38

Input Set : A:\TEX871-4-006US.txt

Output Set: N:\CRF4\01162003\J067076.raw

3 <110> APPLICANT: Wise, Carol A.
5 <120> TITLE OF INVENTION: Genetic Markers for Autoimmune Disorder
7 <130> FILE REFERENCE: TEX871/4-006US/36000
9 <140> CURRENT APPLICATION NUMBER: US 10/067,076
10 <141> CURRENT FILING DATE: 2002-02-04
12 <150> PRIOR APPLICATION NUMBER: 60/287,893
13 <151> PRIOR FILING DATE: 2001-05-01
15 <150> PRIOR APPLICATION NUMBER: 09/710,693
16 <151> PRIOR FILING DATE: 2000-11-08
18 <160> NUMBER OF SEQ ID NOS: 28
20 <170> SOFTWARE: PatentIn version 3.2
22 <210> SEQ ID NO: 1
23 <211> LENGTH: 416
24 <212> TYPE: PRT
25 <213> ORGANISM: Human Amino Acid
27 <400> SEQUENCE: 1
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37 Arg Lys Met Cys Lys Asp Met Glu Glu Leu Leu Arg Gln Arg Ala Gln
38 35 40 45
41 Ala Glu Glu Arg Tyr Gly Lys Glu Leu Val Gln Ile Ala Arg Lys Ala
42 50 55 60
45 Gly Gly Gln Thr Glu Ile Asn Ser Leu Arg Ala Ser Phe Asp Ser Leu
46 65 70 75 80
49 Lys Gln Gln Met Glu Asn Val Gly Ser Ser His Ile Gln Leu Ala Leu
50 85 90 95
53 Thr Leu Arg Glu Glu Leu Arg Ser Leu Glu Glu Phe Arg Glu Arg Gln
54 100 105 110
57 Lys Glu Gln Arg Lys Lys Tyr Glu Ala Val Met Asp Arg Val Gln Lys
58 115 120 125
61 Ser Lys Leu Ser Leu Tyr Lys Lys Ala Met Glu Ser Lys Lys Thr Tyr
62 130 135 140
65 Glu Gln Lys Cys Arg Asp Ala Asp Asp Ala Glu Gln Ala Phe Glu Arg
66 145 150 155 160
69 Ile Ser Ala Asn Gly His Gln Lys Gln Val Glu Lys Ser Gln Asn Lys
70 165 170 175
73 Ala Arg Gln Cys Lys Asp Ser Ala Thr Glu Ala Glu Arg Val Tyr Arg
74 180 185 190
77 Gln Ser Ile Ala Gln Leu Glu Lys Val Arg Ala Glu Trp Glu Gln Glu
78 195 200 205
81 His Arg Thr Thr Cys Glu Ala Phe Gln Leu Gln Glu Phe Asp Arg Leu

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82      210      215      220
85 Thr Ile Leu Arg Asn Ala Leu Trp Val His Ser Asn Gln Leu Ser Met
86 225      230      235      240
89 Gln Cys Val Lys Asp Asp Glu Leu Tyr Glu Glu Val Arg Leu Thr Leu
90      245      250      255
93 Glu Gly Cys Ser Ile Asp Ala Asp Ile Asp Ser Phe Ile Gln Ala Lys
94      260      265      270
97 Ser Thr Gly Thr Glu Pro Pro Ala Pro Val Pro Tyr Gln Asn Tyr Tyr
98      275      280      285
101 Asp Arg Glu Val Thr Pro Leu Thr Ser Ser Pro Gly Ile Gln Pro Ser
102      290      295      300
105 Cys Gly Met Ile Lys Arg Phe Ser Gly Leu Leu His Gly Ser Pro Lys
106 305      310      315      320
109 Thr Thr Ser Leu Ala Ala Ser Ala Ala Ser Thr Glu Thr Leu Thr Pro
110      325      330      335
113 Thr Pro Glu Arg Asn Glu Gly Val Tyr Thr Ala Ile Ala Val Gln Glu
114      340      345      350
117 Ile Gln Gly Asn Pro Ala Ser Pro Ala Gln Glu Tyr Arg Ala Leu Tyr
118      355      360      365
121 Asp Tyr Thr Ala Gln Asn Pro Asp Glu Leu Asp Leu Ser Ala Gly Asp
122      370      375      380
125 Ile Leu Glu Val Ile Leu Glu Gly Glu Asp Gly Trp Trp Thr Val Glu
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134 <211> LENGTH: 323
135 <212> TYPE: PRT
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138 <400> SEQUENCE: 2
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145      20      25      30
148 Arg Lys Met Cys Lys Asp Val Glu Glu Leu Leu Arg Gln Arg Ala Gln
149      35      40      45
152 Ala Glu Glu Arg Tyr Gly Lys Glu Leu Val Gln Ile Ala Arg Lys Ala
153      50      55      60
156 Gly Gly Gln Thr Glu Met Asn Ser Leu Arg Thr Ser Phe Asp Ser Leu
157 65      70      75      80
160 Lys Gln Gln Thr Glu Asn Val Gly Ser Ala His Ile Gln Leu Ala Leu
161      85      90      95
164 Ala Leu Arg Glu Glu Leu Arg Ser Leu Glu Glu Phe Arg Glu Arg Gln
165      100      105      110
168 Lys Glu Gln Arg Lys Lys Tyr Glu Ala Ile Met Asp Arg Val Gln Lys
169      115      120      125
172 Ser Lys Leu Ser Leu Tyr Lys Lys Thr Met Glu Ser Lys Lys Ala Tyr
173      130      135      140
176 Asp Gln Lys Cys Arg Asp Ala Asp Asp Ala Glu Gln Ala Phe Glu Arg

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177 145          150          155          160
180 Val Ser Ala Asn Gly His Gln Lys Gln Val Glu Lys Ser Gln Asn Lys
181          165          170          175
184 Ala Lys Gln Cys Lys Glu Ser Ala Thr Glu Ala Glu Arg Val Tyr Arg
185          180          185          190
188 Gly Asn Ile Glu Gln Leu Glu Arg Ala Arg Thr Glu Trp Glu Gln Glu
189          195          200          205
192 His Arg Thr Thr Cys Glu Ala Phe Gln Leu Gln Glu Phe Asp Arg Leu
193          210          215          220
196 Thr Ile Leu Arg Asn Ala Leu Trp Val His Cys Asn Gln Leu Ser Met
197 225          230          235          240
200 Gln Cys Val Lys Asp Asp Glu Leu Tyr Glu Glu Val Arg Leu Thr Leu
201          245          250          255
204 Glu Gly Cys Asp Val Glu Gly Asp Ile Asn Gly Phe Ile Gln Ser Lys
205          260          265          270
208 Ser Thr Gly Arg Glu Pro Pro Ala Pro Val Pro Tyr Gln Asn Tyr Tyr
209          275          280          285
212 Asp Arg Glu Val Thr Pro Leu Ile Gly Ser Pro Ser Ile Gln Pro Ser
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220 Thr Thr Pro
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235 Asn Glu Leu Val Tyr Ala Ser Ile Glu Val Gln Ala Thr Gln Gly Asn
236          20          25          30
239 Leu Asn Ser Ser Ala Gln Asp Tyr Arg Ala Leu Tyr Asp Tyr Thr Ala
240          35          40          45
243 Gln Asn Ser Asp Glu Leu Asp Ile Ser Ala Gly Asp Ile Leu Ala Val
244          50          55          60
247 Ile Leu Glu Gly Glu Asp Gly Trp Trp Thr Val Glu Arg Asn Gly Gln
248 65          70          75          80
251 Arg Gly Phe Val Pro Gly Ser Tyr Leu Glu Lys Leu
252          85          90
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265 <211> LENGTH: 20
266 <212> TYPE: DNA
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17

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Input Set : A:\TEX871-4-006US.txt

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310 <211> LENGTH: 20	
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318 <210> SEQ ID NO: 11	
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323 <400> SEQUENCE: 11	
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327 <210> SEQ ID NO: 12	
328 <211> LENGTH: 21	
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336 <210> SEQ ID NO: 13	
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Input Set : A:\TEX871-4-006US.txt

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346 <211> LENGTH: 19	
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354 <210> SEQ ID NO: 15	
355 <211> LENGTH: 20	
356 <212> TYPE: DNA	
357 <213> ORGANISM: Human Nucleic Acid	
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360 agaacagaac gcactccttt	20
363 <210> SEQ ID NO: 16	
364 <211> LENGTH: 19	
365 <212> TYPE: DNA	
366 <213> ORGANISM: Human Nucleic Acid	
368 <400> SEQUENCE: 16	
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372 <210> SEQ ID NO: 17	
373 <211> LENGTH: 18	
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375 <213> ORGANISM: Human Nucleic Acid	
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381 <210> SEQ ID NO: 18	
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383 <212> TYPE: DNA	
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407 gtccgggctg agtgggagca ggagcaccgg accacctgtg aggcctttca gctgcaagag	660
409 tttgaccggc tgaccattct ccgcaacgcc ctgtgggtgc acagcaacca gctctccatg	720
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